Product Series :	GRFT	Brand :	GOTREND
File Version :	GRFT-SERIES-V1R1	Editor :	Teddy Sun
Established Date :	2020.06.18	Description :	RF Transponder
Latest Edit Date :	2020.11.06	Product Type :	☑ Standard

Version Information :

SN	Date	Version Code	Modify Description	Editior
01	2020.11.06	V1R1	New version update release	Teddy Sun
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File Version : GRFT-SERIES-V1R1	Editor ·	Ta alah 2 Outra
	Luitor .	Teddy Sun
Established Date: 2020.06.18	Description :	RF Transponder
Latest Edit Date : 2020.11.06 P	Product Type :	☑ Standard □ Customize

- Product information in this catalog is subject to change without notice, and is for reference only. Therefore, please contact GOTREND Technology to check for the latest information before practical application or usage of the products.
- This catalog contains only typical specifications, please contact GOTREND Technology for further details if you can not find special components or information you need in this catalogue. Please also approve our product specifications or transact the approval sheet for product specifications before ordering.
- This catalogue only applies to products purchased through GOTREND Technolgy or its official agencies. This catalogue does not apply to products that are purchased through other third parties.
- Please read Attention and CAUTION note (for storage, operating, rating, soldering, mounting and handling) in this catalog to ensure product proper usage.
- GOTREND Technology is not responsible for issues that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. GOTREND Technology do not grant license of these rights.
- Information and data provided in the brochure can and do vary in different applications, and actual performance may vary over time.
- "Delivery Specification" illustrating precautions for the specifications and safety of each product listed in this catalog is available and we strongly recommend to provide these delivery specifications with customers that use these products.
- For exporting of product in this catalog, please take note it may be a restricted item according to the "Foreign Exchange and Foreign Trade Control Law". In such cases, it is necessary to acquire export permission in accordance to this law.
- Any reproduction or extraction of the contents in this catalog is prohibited without prior permission from GOTREND Technology.
- Products listed in this catalog are intended for general electronic device usage under normal operation and use condition including telecommunication equipment, home appliances, sports equipment AV equipment, industrial machine, office equipment etc. Please take note that our products are not designed, intended or authorized for use in below mentioned applications unless explicitly agreed in writing between the parties to avoid product failure that could result in situation where personal injury or death could occur.
 - (1) Aerospace/Aviation equipment
 - (2) Atomic energy-related equipment
 - (3) Disaster prevention/crime prevention equipment
 - (4) Electric heating apparatus, burning equipment
 - (5) Medical equipment
 - (6) Military equipment
 - (7) Power-generation control equipment
 - (8) Public information-processing equipment
 - (9) Safety equipment
 - (10) Seabed equipment
 - (11) Transportation control equipment
 - (12) Transportation equipment (cars, electric trains, ships, etc.)
 - (13) Other applications that are not considered general-purpose applications
- Our manufacturing sites fully compliance with requirement regarding the quality management system in the automotive industry under the IATF 16949 standard. GOTREND Technology respect individual agreements with reference to customer requirements and customer specific requirements (CSR). We will like to emphasize that only requirements mutually agreed upon will in implemented in our Quality Management System taking into consideration that IATF 16949 may appear to support the acceptance of unilateral requirements. We will only legally bind to this individually agreed upon agreement under the IATF 16949 standard.
- The product itself is a powder metallurgy product, so the structure is relatively fragile, and it should not be used for products that are easy to fall. In addition, when this product is assembled, it should avoid collision with the tool or mechanism shell.
- It is not recommended to use hot air gun for disassembling of this product. When using of hot air gun to repair other parts, please also take note that long time or high temperature exposure of this product will also damage the inductance device.
 If you need to use the hot air gun to disassemble the product, it is recommended to adjust the hot air gun temperature to 380 deg.C±5 deg.C. The blower head of the hot air gun should be perpendicular and at least 1cm away from the product. After heating the product to the tin material melting point, use tweezers to remove the product from the PCB.







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Features & Application :

- * Hearing Aid Compatibility / Telecoil-antennas.
- * Meets the T3 / T4 FCC requirements (HAC). ANSI C63.19
- * T-coil / HAC-coil for hearing and aid compatible cell phones.
- * Decoupling in RF and IF-circuit.
- * Transponder antenna.



(Picture for reference only)

Basic Information :

Made in	China
Pin Foot	SMD
Shielding	No
J-STD-020	MSL Level 1
RoHS	Compliant
REACH	Compliant
Halogen	Free

Part No. Example :

PN	:	GRFT	3225	Ρ	-	102	
ID	:	1	2	3		4	5

1	:	GOTREND Series Code
2	:	Dimension Code : 3225 = (L) 3.6 x (W) 2.8 x (H) 2.6 mm
3	:	RoHS Compliance
4	:	Inductance : 102 = 1080 uH
5	:	Tolerance : J = 5% , K = 10%

Operating & Storage Condition :

* Operating Temp	-40 ~ +125 deg.C (Including self - temperature rise)
* Storage Temp	110 \sim +45 deg.C , 50 \sim 60% RH (Product with taping)
	240 ~ +125 deg.C (On board)
* Storage Life Time	6 Month (Less than 40 deg.C and 60% RH)

Attention & Caution :

* Keep out of	Splashing water or salt water
* Avoid	Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
	Vibrations or shocks which exceed the specified condition
1	Dew condense
	Layout near the edge of PCB
	Over flexure after SMT mounting & PCBA

- * Pin foot or SMD pad solderablility: Pb free type is best within 6 months after delivery
- * Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- * Caution for human life relative applications : PLS contact & consult with GOTREND team in design stage.

Test Condition :

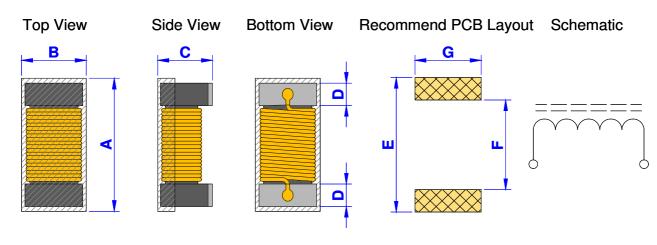
* Equipment

Recommend IR Reflow Curve : GTX-IR-FILE001 Lead Free Solder : A = 217 deg.C , B = 245+/-5 deg.C Time : C = 40 ~ 60 Sec. HP4284A , HP42841A - L , Q , DCR , IDC HP8753D Network analyzer - SRF В Temp [deg.C] Α Soldering 180 160 * Standard Atmosphere Conditions: С Ambient Temperature 20 ± 15 deg.C 100 60 ~ 90 Sec Humidity RH 65 ± 20% 50 * If there may be any doubt on the test result, Time [Sec.] Measurement shall be made within the following limits: Notice : Iron Soldering , Solder < 30 Watt , Ambient Temperature 25 ± 5 deg.C Direct touch the terminal x 3 Sec. Max. @ 350 deg.C Humidity RH 75 ± 10%

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GRFT3225P-SERIES



Size	A	В	С	D	E	F	G
3225	3.6 Max.	2.8 Max.	2.6 Max.	0.55+/-0.1	3.82 Ref.	1.78 Ref.	2.8 Ref.

Electrical Characteristics :

Part No.	Inductance (uH)	Freq. L @(KHz)	Q @125KHz Min.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
GRFT3225P-102	1080	125	15.0	1.5	35.0	50.0
GRFT3225P-132	1340	125	15.0	1.5	42.0	50.0

* L-Tolerance : J = 5% , K = 10%

* All test data referenced to $25^\circ\!\mathbb{C}$ ambient.

* Rated current (Irms) will cause the coil temperature rise approximately riangle T of 20 $^\circ\!C$

* This product final operating temperature (Ambient + product temperature rise) should not exceed 125deg.C as highest operating temperature.

Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision will impact this product temperature.

Part temperature should be verified in the end application.

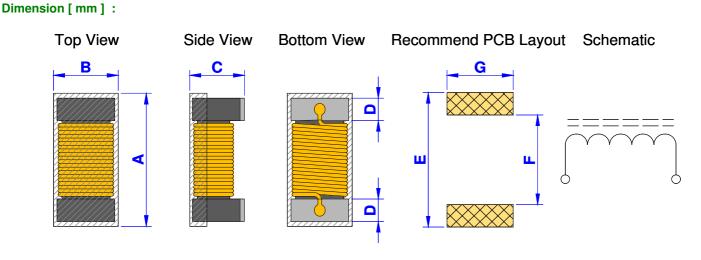


Email : service@gotrend.com.tw

Dimension [mm] :

Product Series :	GRFT	Brand :	GOTREND
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Established Date :	2020.06.18	Description :	RF Transponder
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GRFT4420P-SERIES



ſ	Size	А	В	С	D	E	F	G
ſ	4420	4.75+/-0.2	2.25+/-0.2	1.8+/-0.3	0.8 Ref.	4.8 Ref.	3.2 Ref.	2.3 Ref.

Electrical Characteristics :

Part No.	Inductance (uH)	Freq. L (KHz)	SRF (MHz)	DCR (Ω)	Rated current (mA)
GRFT4220P-252M	2500	10	1.0 Min.	82.0+/-10%	40.0 Max.
GRFT4220P-352K	3500	10	1.0 Min.	85.0 Max.	20.0 Max.

* L-Tolerance : K = 10% , M = 20%

* All test data referenced to $25^\circ\!\mathrm{C}$ ambient.

* Rated current (Irms) will cause the coil temperature rise approximately riangle T of 20 $^\circ\!C$

* This product final operating temperature (Ambient + product temperature rise) should not exceed 125deg.C as highest operating temperature.

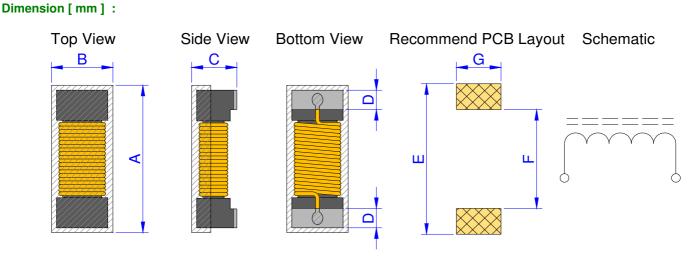
Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision will impact this product temperature.

Part temperature should be verified in the end application.



Product Series :	GRFT	Brand :	GOTREND
File Version :	GRFT-SERIES-V1R1	Editor :	Teddy Sun
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GRFT6420P-SERIES



Size	А	В	С	D	E	F	G
6420	6.4+/-0.3	2.3+/-0.2	1.8+/-0.2	0.9 Ref.	7.0 Ref.	4.6 Ref.	2.0 Ref.

Electrical Characteristics :

Part No.	Inductance (uH)	Freq. L (KHz)	SRF (KHz)	DCR (Ω)	Rated current (mA)
GRFT6420P-522J	5200	125	520 Min.	113.0 Max.	30.0 Max.
GRFT6420P-622J	6200	125	488 Min.	123.0 Max.	30.0 Max.
GRFT6420P-702J	7000	125	420 Min.	125.0 Max.	20.0 Max.
GRFT6420P-722K	7200	125	450 Min.	130.0 Max.	15.0 Max.

* L-Tolerance : J = 5% , K = 10%

* All test data referenced to $25^\circ\!\mathrm{C}$ ambient.

* Rated current (Irms) will cause the coil temperature rise approximately ${\bigtriangleup}T$ of 20 ${}^\circ\!{\mathbb C}$

* This product final operating temperature (Ambient + product temperature rise) should not exceed 125deg.C as highest operating temperature.

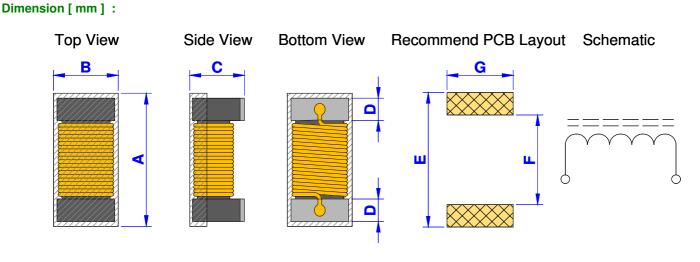
Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision will impact this product temperature.

Part temperature should be verified in the end application.



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GRFT8027P-SERIES



Size	A	В	С	D	E	F	G
8027	7.85 Max.	2.7 Max.	2.7 Max.	1.15 Ref.	9.5 Ref.	5.2 Ref.	2.9 Ref.

Electrical Characteristics :

Part No.	Inductance (uH)	Freq. L (KHz)	Q @125KHz	DCR (Ω)	Rated current (mA)
GRFT8027P-452□	4500	125	30 Тур.	80.0 Max.	20.0 Max.
GRFT8027P-492□	4900	125	30 Тур.	85.0 Max.	20.0 Max.
GRFT8027P-722□	7200	125	35 Тур.	105.0 Max.	20.0 Max.
GRFT8027P-193□	18520	125	35 Тур.	240.0 Max.	20.0 Max.

* L-Tolerance : H = +/-3% , J = +/-5%

* All test data referenced to $25^\circ\!\mathrm{C}$ ambient.

* Rated current (Irms) will cause the coil temperature rise approximately ${\bigtriangleup}T$ of 20 ${}^\circ\!{\rm C}$

* This product final operating temperature (Ambient + product temperature rise) should not exceed 125deg.C as highest operating temperature.

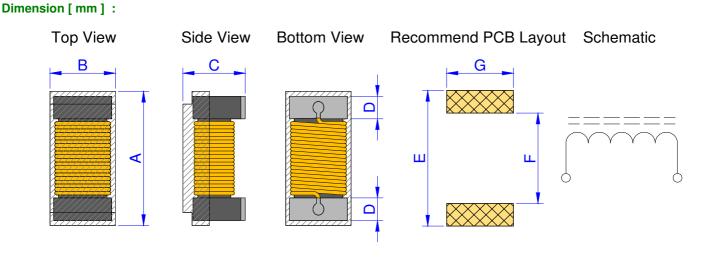
Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision will impact this product temperature.

Part temperature should be verified in the end application.



Product Series :	GRFT	Brand :	GOTREND
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GRFT1225P-SERIES



Size	A	В	С	D	E	F	G
1225	11.6+/-0.3	3.8+/-0.3	2.5+/-0.3	1.5 Ref.	11.6 Ref.	8.0 Ref.	3.6 Ref.

Electrical Characteristics :

Part No.	Inductance (uH)	Freq. L (KHz)	Q @125KHz	SRF (MHz)	DCR (Ω)	Rated current (mA)
GRFT1225P-101H	100	125	20.0 Min.	20.0 Min.	3.0 Max.	300.0 Max.
GRFT1225P-201H	200	125	20.0 Min.	2.0 Min.	6.0 Max.	200.0 Max.
GRFT1225P-492H	4900	125	20.0 Min.	0.34 Min.	50.0 Max.	50.0 Max.
GRFT1225P-722H	7200	125	40.0 Min.	0.3 Min.	40.0 Max.	50.0 Max.

* L-Tolerance : H = 3%

* All test data referenced to $25^\circ\!\mathrm{C}$ ambient.

* Rated current (Irms) will cause the coil temperature rise approximately ${\bigtriangleup}T$ of 20 ${}^\circ\!{\mathbb C}$

* This product final operating temperature (Ambient + product temperature rise) should not exceed 125deg.C as highest operating temperature.

Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision will impact this product temperature.

Part temperature should be verified in the end application.



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Care note :

Care note for Use :

(1) Storage Condition :

Temperature 25 to 35 deg.C , Humidity 45 to 60% RH

(2) Use Temperature :

a. Minimum Temperature : -40 deg.C Ambient temperature of this product.

- b. Maximum Temperature : +125 deg.C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 ~ +125 deg.C
- d. However, this is not meant as temperature grade guarantee for UL.

(3) Model :

When this product was used in a similar or as new product to the original one, sometimes it might be unable to satisfy the specifications due to difference in condition of usage.

(4) Drop :

If this product suffered mechanical stress such as drop, characteristics may become poor (due to damage on coil / bobbin / ferrite ... etc.)

Never use such stressed product.

Care note for Safety :

(1) Provision to Abnormal Condition :

This product itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.

Therefore, it shall be confirmed from the end product that there is no risk of smoking, fire, dielectric withstand voltage insulation resistance, etc. in abnormal conditions to provide protective devices and /or protection circuit in the end product.

(2) Temperature Rise :

Temperature rise on this product depends on the installation condition on end products. It shall be confirmed on the actual end product that temperature rise of this product is within the specified temperature class limit.

(3) Dielectric Strength :

Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.

(4) Water :

This product must not be used in wet condition resulted from water, coffee or any liquid contact because insulation strength becomes very low under such condition.

(5) Potting :

If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(6) Detergent :

Please consult our company immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.



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Reliability :

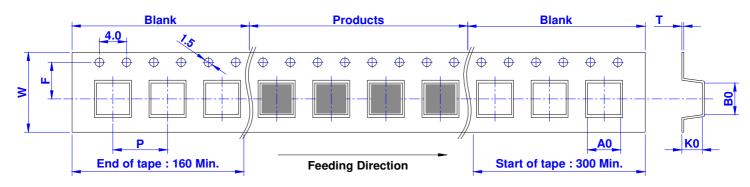
SN	Test Item		Test Condition		Specification
1	Dimension	Actual Size			Meet Spec
2	Thermal Shock (Temperature Cycle)	Temperature : -4 Cycle : 100 Cycl	10 ~ +125 deg.C kept stab es (power off)	ilized for 30 min. each	Elec. no variation Appearance no deformation
3	Humidity Resistance	Humidity : 90% - Temperature : 6	~ 95% RH 0 ± 2 deg.C,Test Time:	96 ± 2 Hours	Elec. no variation Appearance no deformation
4	HighTemperature	Temperature : 125 ± 2 deg.C Testing Time : 96 ± 2 Hours			Elec. no variation Appearance no deformation
5	Low Temperature	Temperature : -4 Time : 96 ± 2 Ho			Elec. no variation Appearance no deformation
6	Temperature and Humidity Cycle	Temperature 25 deg.C 55 deg.C 25 deg.C Cycle : 20 Cycle	Humidity 90% ~ 95% RH 95% ~ 96% RH 90% ~ 95% RH s	Elec. no variation Appearance no deformation	
7	Vibration	Frequency : 10H	z ~ 55Hz,Amplitude:1. ,Z,Time:2 Hours each		Elec. no variation Appearance no deformation
8	Solderability	Go through real SMT IR-Reflow The profile like our suggest profile. Preheat : 160 ± 10 deg.C (90 sec) Peak : 245 ± 5 deg.C Peak Time : 50 Sec. / up 217 deg.C			Elec. no variation Appearance no deformation
9	Soldering Heat Resistance	Preheat : 160 ± 10 deg.C (90 sec) Solder : Sn / Ag / Cu (Pb Free) Solder Temp. : 260 ± 5 deg.C [,] Time : 3 ± 1 seconds			Elec. no variation Appearance no deformation
10	Iron Solder Heat Resistance	Solder Temp. : 350 ± 5 deg.C Flux : Rosin,Time : 3 ± 1 seconds			Elec. no variation Appearance no deformation
11	Bending Strength	Unit : mm 10 x 10 Force : 1Kg / min.			Elec. no variation Appearance no deformation
12	Flexure Strength	Unit : mm 10 x 20 1.6 4.5 4.5 $2.0Solder cream 0.15 mm$			Elec. no variation Appearance no deformation
13	Terminal Strength	X - Push 10N force to X , Y direction Solder Cream 0.15 mm Y			Elec. no variation Appearance no deformation
14	High-Voltage	100 V DC betwe	en core & winding	Elec. no variation Appearance no deformation	
15	Load life	Temperature : 2 Load : Allowed [5 ± 3 deg.C DC Current,Test Time:9	96 ± 2 Hours	Elec. no variation Appearance no deformation



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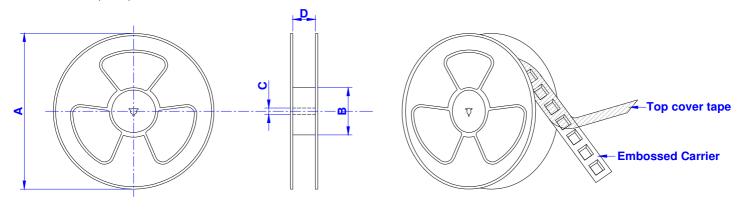
Packaging Information :

Tape Dimension (mm) :



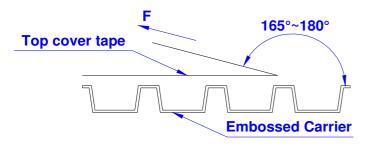
SIZE/mm	W	Р	A0	B0	K0	Т	F
3225	8.0	4.0	2.88	3.72	2.5	0.26	3.5
4420	12.0	8.0	2.5	5.0	2.1	0.3	5.5
6420	16.0	8.0	2.5	6.7	2.2	0.3	7.5
8027	16.0	8.0	2.8	7.9	2.35	0.3	7.5
1225	24.0	8.0	4.2	12.05	2.65	0.35	11.5

Reel Dimension (mm):



SIZE/mm	Reel Size	А	В	С	D	QTY / Reel
3225	7" x 8 mm	178	60	13	8.5	2000 PCS
4420	7" x 12 mm	178	60	13	12.5	1000 PCS
6420	7" x 16 mm	178	60	13	16.5	1000 PCS
8027	7" x 16 mm	178	60	13	16.5	1000 PCS
1225	13" x 24 mm	330	100	13	24.5	1000 PCS

Tearing Off Force :



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

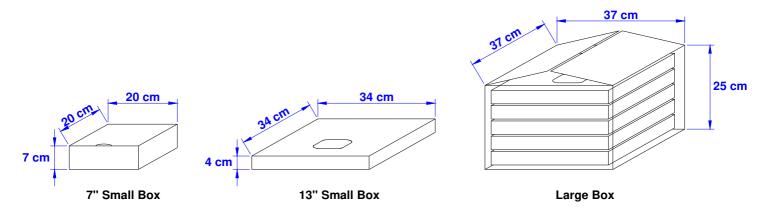
Room Temp.	Room Humidity	Room Atm.	Tearing Speed
(deg.C)	(%)	(hPa)	(mm / min)
5 ~ 35	45 ~ 85	860 ~ 1060	300

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Packaging Information :

Box Package :



SIZE/mm	Reels in Small Box	Small Box in Large Box
3225	5	8
4420	4	8
6420	3	8
8027	3	8
1225	1	5

